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	Application No.	Applicant(s)	
Notice of Allowability	09/781,833	ELDRIDGE ET AL.	
	Examiner	Art Unit	
	Anita K Alanko	1765	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	√e
1. This communication is responsive to 3/22/04 RCE.			
2. ☑ The allowed claim(s) is/are <u>76-94</u> .			
3. $igotimes$ The drawings filed on <u>12 February 2001</u> are accepted by the	ne Examiner.		
4. Acknowledgment is made of a claim for foreign priority una All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have a. Certified copies not received: * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give a. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in tild of the position of the proper in	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declarate be submitted. son's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL residence in the BIOLOGICAL MATERIAL residence in the BIOLOGICAL MATERIAL residence in the design of the process o	national stage application from the complying with the requirements. 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). must be submitted. Note the	
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Da 98), 7. ☑ Examiner's Amendr	te <u>0504</u> .	_

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification:

On page 37, line 27, delete "Fig.23C" and insert - - Fig. 23A - -

In the claims:

Cancel claims 69-75.

This application is in condition for allowance except for the presence of claims 69-75 drawn to a method non-elected without traverse (see below). Accordingly, claims 69-75 have been cancelled.

Amendment to Drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Change the second instance of Fig. 16C to read "Fig. 16D". Label Figures 19A-19C as Fig. 23A, Fig. 23B, and Fig.23C. In Figure 23A, change "19B" to "23B" and in Figure 23B, change "19C" to "23C" (these changes were noted in the originally filed drawings).

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In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/22/04 has been entered.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- III. Claims 69-75, drawn to a method of forming a molded surface, classified in class 439, subclass 66.
- IV. Claims 76-94, drawn to a method of forming a plurality of electrically conductive contact structures, classified in class 216, subclass 13.

The inventions are distinct, each from the other because of the following reasons:

Inventions III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as

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claimed because the combination does not require directing a curing stimulus through said stamping tool. The subcombination has separate utility such as molding to form a different product such as a flat panel display or a micromachine.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Kenneth Burraston on March 26, 2004 a provisional election was made without traverse to prosecute the invention of Invention IV, claims 76-94.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The following is an examiner's statement of reasons for allowance: the prior art does not teach or suggest a method of forming a plurality of electrically conductive contact structures on an electronic component comprising a plurality of electrically conductive contact elements, each said contact structure comprising a base connected to one of said contact elements and a beam, said method comprising:

depositing a layer of moldable material on said electronic component;

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providing a stamping tool comprising a plurality of protruding regions, a plurality of contoured regions, and a plurality of recessed regions, each said protruding region defining a base of one of said contact structures and corresponding to one of said contact elements on said electronic component, each said contoured region defining a beam of one of said contact structures, and each said recessed region defining a separation between adjacent ones of said contact structures;

aligning said protruding regions of said stamping tool with said contact elements of said electronic component;

pressing said stamping tool into said moldable material, said plurality of protruding regions forming molds in said moldable material of bases of said contact structures, and said plurality of contoured regions forming beam molds in said moldable material of beams of said contact structures; and

depositing contact structure material into said beam molds and said base molds, as in the context of claim 76.

The closest prior art, Chou, teaches to press a stamping tool into moldable material, but there is no motivation to provide a stamping tool comprising a plurality of protruding regions, a plurality of contoured regions, and a plurality of recessed regions, each said protruding region defining a base of one of said contact structures and corresponding to one of said contact elements on said electronic component, each said contoured region defining a beam of one of said contact structures, and each said recessed region defining a separation between adjacent ones of said contact structures, as in the context of claim 76.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anita K Alanko whose telephone number is 571-272-1458. The examiner can normally be reached on Mon, Tues & Fri: 8:30 am-5 pm; Wed&Thurs:10 am-2 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anita K. Hanko Anita K Alanko

Primary Examiner
Art Unit 1765